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 <213> Homo sapien  
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 <213> Homo sapien  
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<210> 47  
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 <212> PRT  
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<400> 51  
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<210> 52  
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 <212> PRT  
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TC000001

<400> 52

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<400> 56  
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<400> 57  
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<213> Homo sapien
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<210> 65  
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<400> 65  
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<210> 66  
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<400> 66  
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<210> 67  
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 <212> PRT  
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<400> 67  
 Glu Lys Arg Pro Phe Met Cys Ala Tyr  
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<210> 68  
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 <212> PRT  
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<400> 68  
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<210> 69  
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<400> 69  
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<210> 70  
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 <212> PRT  
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<213> Homo sapien
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<400> 101  
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1 5

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<211> 9
<212> PRT
<213> Homo sapien
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<400> 102  
Gly Ser Gln Ala Leu Leu Leu Arg Thr  
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<210> 103
<211> 9
<212> PRT
<213> Homo sapien
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<400> 103  
Gly Val Phe Arg Gly Ile Gln Asp Val  
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<210> 104
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<212> PRT
<213> Homo sapien
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<400> 104  
Gly Val Lys Pro Phe Gln Cys Lys Thr  
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<213> Homo sapien
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<400> 105  
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<210> 106
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<213> Homo sapien
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Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.4	0	1
Smoking status	0.3	0.5	0	1
Alcohol consumption	0.2	0.4	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.7	0.4	0	1
Work satisfaction	0.6	0.5	0	1
Life satisfaction	0.7	0.4	0	1





<400> 118

<211> 9

<213> Homo sapien

<400> 119

<211> 9

<213> Homo sapien

<400> 120

<211> 9

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<400> 122

<211> 9

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<400> 123

<211> 9

<213> Homo sapien



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 <212> PRT  
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<400> 131  
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 1 5

<210> 132  
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 <212> PRT  
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<400> 132  
 Leu Glu Ser Gln Pro Ala Ile Arg Asn  
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<210> 133  
 <211> 9  
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<400> 133  
 Leu Gly Ala Thr Leu Lys Gly Val Ala  
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<210> 134  
 <211> 9  
 <212> PRT  
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<400> 134  
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<210> 135  
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 <212> PRT  
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<400> 135  
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<210> 136  
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 <212> PRT  
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<211> 9
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<213> Homo sapien
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<400> 155  
 Pro Ile Leu Cys Gly Ala Gln Tyr Arg  
 1 5

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<210> 156
<211> 9
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<400> 156  
 Pro Pro Pro Pro His Ser Phe Ile Lys  
 1 5

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<210> 157
<211> 9
<212> PRT
<213> Homo sapien
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<400> 157  
 Pro Pro Pro Pro Pro His Ser Phe Ile  
 1 5

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<210> 158
<211> 9
<212> PRT
<213> Homo sapien
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Pro  Pro  Pro  Pro  Pro  Pro  His  Ser  Phe
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<210> 159
<211> 9
<212> PRT
<213> Homo sapien
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<400> 159  
 Pro Ser Cys Gln Lys Lys Phe Ala Arg  
 1 5

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<210> 160
<211> 9
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<213> Homo sapien
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[illegible]





<400> 172  
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<210> 173  
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 <212> PRT  
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<400> 173  
 Gln Arg Asn Met Thr Lys Leu Gln Leu  
 1 5

<210> 174  
 <211> 9  
 <212> PRT  
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<400> 174  
 Gln Trp Ala Pro Val Leu Asp Phe Ala  
 1 5

<210> 175  
 <211> 9  
 <212> PRT  
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<400> 175  
 Gln Tyr Arg Ile His Thr His Gly Val  
 1 5

<210> 176  
 <211> 9  
 <212> PRT  
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<400> 176  
 Gln Tyr Ser Val Pro Pro Pro Val Tyr  
 1 5

<210> 177  
 <211> 9  
 <212> PRT  
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<400> 177  
 Arg Asp Leu Asn Ala Leu Leu Pro Ala  
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<210> 178  
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 <212> PRT  
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<400> 223

<210> 224

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<210> 226











<213> Mus musculus







<400> 274

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<400> 276

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<211> 9

<213> Mus musculus

<400> 278

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<400> 279

<211> 9

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<210> 281
<211> 9
<212> PRT
<213> Mus musculus
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<400> 281  
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<210> 282
<211> 9
<212> PRT
<213> Mus musculus
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<400> 282  
Asn Ala Pro Tyr Leu Pro Ser Cys Leu  
1 5

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<211> 9
<212> PRT
<213> Mus musculus
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<400> 283  
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1 5

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<211> 9
<212> PRT
<213> Mus musculus
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<400> 284  
Asn Leu Tyr Gln Met Thr Ser Gln Leu  
1 5

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<210> 285
<211> 9
<212> PRT
<213> Mus musculus
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<400> 285  
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<210> 286
<211> 9
<212> PRT
<213> Mus musculus
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[illegible]





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<210> 293  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 293  
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 1 5

<210> 294  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 294  
 Arg Thr Pro Tyr Ser Ser Asp Asn Leu  
 1 5

<210> 295  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 295  
 Arg Val Ser Gly Val Ala Pro Thr Leu  
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<210> 296  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 296  
 Ser Cys Leu Glu Ser Gln Pro Thr Ile  
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<210> 297  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 297  
 Ser Cys Gln Lys Lys Phe Ala Arg Ser  
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<210> 298  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

10002603-1030001

<400> 298  
Ser Asp Val Arg Asp Leu Asn Ala Leu  
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<210> 299
<211> 9
<212> PRT
<213> Mus musculus
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<400> 299  
Ser Leu Gly Glu Gln Gln Tyr Ser Val  
1 5

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<210> 300
<211> 9
<212> PRT
<213> Mus musculus
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<400> 300  
 Thr Cys Gln Arg Lys Phe Ser Arg Ser  
 1 5

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<210> 301
<211> 9
<212> PRT
<213> Mus musculus
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<400> 301  
 Thr Glu Gly Gln Ser Asn His Gly Ile  
 1 5

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<210> 302
<211> 9
<212> PRT
<213> Mus musculus
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<400> 302  
 Thr Leu His Phe Ser Gly Gln Phe Thr  
 1 5

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<210> 303
<211> 9
<212> PRT
<213> Mus musculus
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<400> 303  
 Thr Leu Val Arg Ser Ala Ser Glu Thr  
 1 5

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<210> 304
<211> 9
<212> PRT
<213> Mus musculus
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Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	Male	0.75	0	1
Marital status	Married	0.65	0	1
Education	High school	0.15	0	1
Occupation	Manager	0.25	0	1
Income	Low	0.35	0	1
Health	Good	0.85	0	1
Stress	Low	0.25	0	1
Life satisfaction	High	0.75	0	1
Work-life balance	Good	0.65	0	1
Family support	High	0.85	0	1
Community support	High	0.75	0	1
Work environment	Good	0.65	0	1
Job satisfaction	High	0.75	0	1
Organizational commitment	High	0.85	0	1
Turnover intention	Low	0.15	0	1
Job performance	High	0.75	0	1
Employee engagement	High	0.85	0	1
Work-life balance	Good	0.65	0	1
Family support	High	0.85	0	1
Community support	High	0.75	0	1
Work environment	Good	0.65	0	1
Job satisfaction	High	0.75	0	1
Organizational commitment	High	0.85	0	1
Turnover intention	Low	0.15	0	1
Job performance	High	0.75	0	1
Employee engagement	High	0.85	0	1





<210> 316  
 <211> 14  
 <212> PRT  
 <213> Homo sapien

<400> 316  
 Glu Arg Arg Phe Ser Arg Ser Asp Gln Leu Lys Arg His Gln  
 1 5 10

<210> 317  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 317  
 Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr  
 1 5 10 15  
 His Thr Gly Lys Thr Ser  
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<210> 318  
 <211> 21  
 <212> PRT  
 <213> Homo sapien

<400> 318  
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn  
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 Met His Gln Arg Asn  
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<210> 319  
 <211> 449  
 <212> PRT  
 <213> Homo sapien

<400> 319  
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 Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala  
 20 25 30  
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
 35 40 45  
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Ala Pro Pro Pro Pro Pro  
 50 55 60  
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80  
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe  
 85 90 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110  
 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile

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<210> 320
<211> 449
<212> PRT
<213> Mus musculus
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Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Gly	Leu	Pro	Val	Ser	Gly	Ala	Ala	
			20					25					30			
Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr	
		35					40					45				

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro  
 50 55 60  
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80  
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Leu His Phe  
 85 90 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110  
 Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Thr Ile  
 130 135 140  
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Ala Pro Ser Tyr  
 145 150 155 160  
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe  
 165 170 175  
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln  
 180 185 190  
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser  
 195 200 205  
 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp  
 210 215 220  
 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln  
 225 230 235 240  
 Met Asn Leu Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser  
 245 250 255  
 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Gly Ile Gly Tyr Glu  
 260 265 270  
 Ser Asp Asn His Thr Ala Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile  
 275 280 285  
 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Ser  
 290 295 300  
 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys  
 305 310 315 320  
 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys  
 325 330 335  
 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro  
 340 345 350  
 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp  
 355 360 365  
 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln  
 370 375 380  
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr  
 385 390 395 400  
 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys  
 405 410 415  
 Arg Trp His Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val  
 420 425 430  
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu His Val Ala  
 435 440 445  
 Leu

&lt;210&gt; 321



<211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 321  
 Pro Ser Gln Ala Ser Ser Gly Gln Ala  
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<210> 322  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 322  
 Ser Ser Gly Gln Ala Arg Met Phe Pro  
 1 5

<210> 323  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 323  
 Gln Ala Arg Met Phe Pro Asn Ala Pro  
 1 5

<210> 324  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 324  
 Met Phe Pro Asn Ala Pro Tyr Leu Pro  
 1 5

<210> 325  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 325  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys  
 1 5

<210> 326  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 326  
 Ala Pro Tyr Leu Pro Ser Cys Leu Glu  
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<210> 327  
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 <212> DNA  
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 tgcggtccgt gcaaaatgat cgccccgatt ctggatgaaa tcgctgacga atatcagggc 180  
 aaactgaccg ttgcaaaact gaacatcgat caaaaccctg gcactgcgcc gaaatatggc 240  
 atccgtggta tcccgactct gctgctgttc aaaaacgggtg aagtggcggc aaccaaagtg 300  
 ggtgcaactgt ctaaagggtca gttgaaagag ttccctcgacg ctaacctggc cggttctggt 360  
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 <212> DNA  
 <213> Homo sapiens

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 tatggctgcc acacccccac cgacagctgc accggcagcc aggcctttgct gctgaggagc 1140  
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<211> 1776  
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<400> 329

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<400> 330

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cactcattca agcatgagga tccatgggc cagcagggtc cgctgggtga gcagcagtac 600
tcggtgccgc ccccggtcta tgggtgccac accccaccg acagctgcac cggcagccag 660
gctttgctgc tgaggacgcc ctacagcagt gacaatttat accaaatgac atcccagctt 720

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<210> 333
<211> 410
<212> PRT
<213> Homo sapiens
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			20					25					30		
Leu	Val	Asp	Phe	Trp	Ala	Glu	Trp	Cys	Gly	Pro	Cys	Lys	Met	Ile	Ala
		35					40					45			
Pro	Ile	Leu	Asp	Glu	Ile	Ala	Asp	Glu	Tyr	Gln	Gly	Lys	Leu	Thr	Val
	50					55					60				
Ala	Lys	Leu	Asn	Ile	Asp	Gln	Asn	Pro	Gly	Thr	Ala	Pro	Lys	Tyr	Gly
65				70						75				80	
Ile	Arg	Gly	Ile	Pro	Thr	Leu	Leu	Leu	Phe	Lys	Asn	Gly	Glu	Val	Ala
			85						90					95	
Ala	Thr	Lys	Val	Gly	Ala	Leu	Ser	Lys	Gly	Gln	Leu	Lys	Glu	Phe	Leu
			100					105					110		
Asp	Ala	Asn	Leu	Ala	Gly	Ser	Gly	Ser	Gly	His	Met	Gln	His	His	His
		115					120					125			
His	His	His	Val	Ser	Ile	Glu	Gly	Arg	Ala	Ser	Ser	Gly	Gly	Ser	Gly
	130					135					140				
Leu	Val	Pro	Arg	Gly	Ser	Ser	Gly	Ser	Gly	Asp	Asp	Asp	Asp	Lys	Ser
145				150						155				160	
Ser	Arg	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val
			165						170					175	
Pro	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala
		180						185					190		
Ala	Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala
	195						200					205			
Tyr	Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro

210		215		220
Pro Pro Pro Pro Pro	His Ser Phe Ile Lys	Gln Glu Pro Ser Trp Gly		
225	230	235		240
Gly Ala Glu Pro His	Glu Glu Gln Cys Leu Ser	Ala Phe Thr Val His		
	245	250		255
Phe Ser Gly Gln Phe	Thr Gly Thr Ala Gly	Ala Cys Arg Tyr Gly	Pro	
	260	265		270
Phe Gly Pro Pro Pro	Pro Ser Gln Ala Ser	Ser Gly Gln Ala Arg	Met	
	275	280		285
Phe Pro Asn Ala Pro	Tyr Leu Pro Ser Cys	Leu Glu Ser Gln Pro	Ala	
	290	295		300
Ile Arg Asn Gln Gly	Tyr Ser Thr Val Thr	Phe Asp Gly Thr Pro	Ser	
305	310	315		320
Tyr Gly His Thr Pro	Ser His His Ala Ala	Gln Phe Pro Asn His	Ser	
	325	330		335
Phe Lys His Glu Asp	Pro Met Gly Gln Gln	Gly Ser Leu Gly Glu	Gln	
	340	345		350
Gln Tyr Ser Val Pro	Pro Pro Val Tyr Gly	Cys His Thr Pro Thr	Asp	
	355	360		365
Ser Cys Thr Gly Ser	Gln Ala Leu Leu Leu	Arg Thr Pro Tyr Ser	Ser	
	370	375		380
Asp Asn Leu Tyr Gln	Met Thr Ser Gln Leu	Glu Cys Met Thr Trp	Asn	
385	390	395		400
Gln Met Asn Leu Gly	Ala Thr Leu Lys Gly			
	405	410		

&lt;210&gt; 334

&lt;211&gt; 591

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 334

Met Gln His His His	His His His Met	Ser Asp Lys Ile Ile	His Leu
	5	10	15
Thr Asp Asp Ser Phe	Asp Thr Asp Val	Leu Lys Ala Asp	Gly Ala Ile
	20	25	30
Leu Val Asp Phe Trp	Ala Glu Trp Cys	Gly Pro Cys Lys	Met Ile Ala
	35	40	45
Pro Ile Leu Asp Glu	Ile Ala Asp Glu	Tyr Gln Gly Lys	Leu Thr Val
	50	55	60
Ala Lys Leu Asn Ile	Asp Gln Asn Pro	Gly Thr Ala Pro	Lys Tyr Gly
	65	70	75
Ile Arg Gly Ile Pro	Thr Leu Leu Leu	Phe Lys Asn Gly	Glu Val Ala
	85	90	95
Ala Thr Lys Val Gly	Ala Leu Ser Lys	Gly Gln Leu Lys	Glu Phe Leu
	100	105	110
Asp Ala Asn Leu Ala	Gly Ser Gly Ser	Gly His Met Gln	His His His
	115	120	125
His His His Val Ser	Ile Glu Gly Arg	Ala Ser Ser Gly	Gly Ser Gly
	130	135	140
Leu Val Pro Arg Gly	Ser Ser Gly Ser	Gly Asp Asp Asp	Lys Ser
	145	150	155
Ser Arg Met Gly Ser	Asp Val Arg Asp	Leu Asn Ala Leu	Leu Pro Ala

Figure 1 consists of 12 micrographs arranged vertically, showing the development of the chick embryo eye at different stages of incubation. The stages are labeled on the right side of each image: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, and 7.0 days. The images show the progression from a small, undifferentiated spot to a fully formed eye with distinct structures like the lens, iris, and retina.

Val	Pro	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly
			180					185					190		
Ala	Ala	Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser
		195					200					205			
Ala	Tyr	Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro
	210					215					220				
Pro	Pro	Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp
225					230					235					240
Gly	Gly	Ala	Glu	Pro	His	Glu	Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val
			245						250					255	
His	Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly
			260					265					270		
Pro	Phe	Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg
		275					280					285			
Met	Phe	Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro
	290					295					300				
Ala	Ile	Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro
305				310						315					320
Ser	Tyr	Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His
			325						330					335	
Ser	Phe	Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu
			340					345					350		
Gln	Gln	Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr
		355					360					365			
Asp	Ser	Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser
	370					375					380				
Ser	Asp	Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp
385					390					395					400
Asn	Gln	Met	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr
			405						410					415	
Glu	Ser	Asp	Asn	His	Thr	Thr	Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg
			420					425					430		
Ile	His	Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val
	435					440					445				
Pro	Gly	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu
	450					455					460				
Lys	Arg	Pro	Phe	Met	Cys	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe
465					470					475					480
Lys	Leu	Ser	His	Leu	Gln	Met	His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys
			485						490					495	
Pro	Tyr	Gln	Cys	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg	Ser
			500					505					510		
Asp	Gln	Leu	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe
		515					520					525</			

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 <213> Homo sapiens

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                                   20                                  25                                  30  
 Leu Pro Val Ser Gly Ala Ala Gln Trp Ala Pro Val Leu Asp Phe Ala  
                                   35                                  40                                  45  
 Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro Pro  
                                   50                                  55                                  60  
 Pro Ala Pro Pro Pro Pro Pro Pro Pro Pro Pro His Ser Phe Ile Lys  
                                   65                                  70                                  75                                  80  
 Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro His Glu Glu Gln Cys Leu  
                                   85                                  90                                  95  
 Ser Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly  
                                   100                                  105                                  110  
 Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro Pro Pro Ser Gln Ala Ser  
                                   115                                  120                                  125  
 Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro Tyr Leu Pro Ser Cys  
                                   130                                  135                                  140  
 Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln Gly Tyr Ser Thr Val Thr  
                                   145                                  150                                  155                                  160  
 Phe Asp Gly Thr Pro Ser Tyr Gly His Thr Pro Ser His His Ala Ala  
                                   165                                  170                                  175  
 Gln Phe Pro Asn His Ser Phe Lys His Glu Asp Pro Met Gly Gln Gln  
                                   180                                  185                                  190  
 Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly  
                                   195                                  200                                  205  
 Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu  
                                   210                                  215                                  220  
 Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu  
                                   225                                  230                                  235                                  240  
 Glu Cys Met Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly  
                                   245                                  250                                  255

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 <212> PRT  
 <213> Homo sapiens

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                                   20                                  25                                  30  
 His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly Val  
                                   35                                  40                                  45



Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro  
 50 55 60  
 Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser  
 65 70 75 80  
 His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr Gln  
 85 90 95  
 Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu  
 100 105 110  
 Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys Lys  
 115 120 125  
 Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr  
 130 135 140  
 Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys  
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 His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala Leu  
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cccttcatgt gtgcttacct aggctgcaat aagagatatt ttaagctgtc ccacttacag 360
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<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

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[illegible]

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Lys	Pro	Tyr	Gln	Cys	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg		
			20				25				30						
Ser	Asp	Gln	Leu	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro		
		35			40			45									
Phe	Gln	Cys	Lys	Thr	Cys	Gln	Arg	Lys	Phe	Ser	Arg	Ser	Asp	His	Leu		
		50			55			60									
Lys	Thr	His	Thr	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ser	Cys	Arg		
		65			70			75									
Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Val	Arg		
			85				90				95						
His	His	Asn	Met	His	Gln	Arg	Asn	Met	Thr	Lys	Leu	Gln	Leu	Ala	Leu		
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			20					25					30		
Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg
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Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln
	50					55					60				
Ala	Arg	Met	Phe	Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser
65					70					75					80

Gln Pro Ala Ile Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly  
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 Asn His Ser Phe Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu  
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 Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr  
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 Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro  
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 Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met  
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 Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly His Ser Thr  
                             180                            185                            190  
 Gly Tyr Glu Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln  
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 Ser Glu Lys Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg  
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 Glu Lys Pro Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Phe  
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 Arg Ser Asp Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys  
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 Leu Lys Thr His Thr Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys  
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 Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val  
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<400> 376  
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<210> 377  
 <211> 1292  
 <212> DNA  
 <213> Homo sapiens

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&lt;400&gt; 377

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&lt;210&gt; 378

&lt;211&gt; 1291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 378

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1291

<210> 379

<211> 1281

<212> DNA

<213> Homo sapiens

<400> 379

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<212> DNA

<213> Homo sapiens

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<210> 381  
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 <212> DNA  
 <213> Homo sapiens

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agtgagaaac gccccttcat gtgtgcttac ccaggctgca ataagagata ttttaagctg 960
tcccacttac agatgcacag caggaagcac actggtgaga aaccatacca gtgtgacttc 1020
aaggactgtg aacgaagggt ttttcgttca gaccagctca aaagacacca aaggagacat 1080
acagggtgtg aaccattcca gtgtaaaact tgtcagcgaa agttctcccg gtccgaccac 1140
ctgaagaccc acaccaggac tcatacaggt gaaaagccct tcagctgtcg gtggccaagt 1200
tgtcagaaaa agtttgcccg gtcagatgaa ttagtccgcc atcacaacat gcatcagaga 1260
aacatgacca aactccagct ggcgctttga g 1291

```

```

<210> 382
<211> 1491
<212> DNA
<213> Homo sapiens

```

```

<400> 382
atggcgcccc ccggcgcccc gcggtcgctg ctctgctgc tgctggcagg ccttgacacat 60
ggcgctcag cactctttga ggatctaatt ggctccgacg ttcgtgacct gaacgcactg 120
ctgccggcag ttcogtccct ggggtggtgt ggtggttgcg cactgccggt tagcggtgca 180
gcacagtggg ctocggttct ggacttcgca ccgcccgggt catccgcata cggttccctg 240
ggtggtccgg caccgcgcgc ggcaccgcgc ccgcccgcgc cgccgcactc cttcatcaaa 300
caggaaccga gctggggtgg tgcagaaccg cacgaagaac agtgccctgag cgcattcacc 360
gttcaacttct ccggccagtt cactggcaca gccggagcct gtcgctacgg gcccttcggg 420
cctcctccgc ccagccaggc gtcattccggc caggccagga tgtttcctaa cgcgccctac 480
ctgccagct gcctcgagag ccagcccgtt attcgcaatc agggttacag cacggtcacc 540
ttcgacggga cgcccagcta cggtcacacg ccctcgacc atgcggcgca gttccccaac 600
cactcattca agcatgagga tcccatgggc cagcagggt cgctgggtga gcagcagtac 660
tcggtgccgc ccccggtcta tgggtgccac acccccaccg acagctgcac cggcagccag 720
gctttgctgc tgaggacgcc ctacagcagt gacaatttat accaaatgac atcccagctt 780
gaatgcatga cctggaatca gatgaactta ggagccacct taaaggcca cagcacaggg 840
tacgagagcg ataaccacac aacgcccata ctctgcggag cccaatacag aatacacacg 900
cacggtgtct tcagaggcat tcaggatgtg cgacgtgtgc ctggagtagc cccgactctt 960
gtacggtcgg catctgagac cagtgaagaa cgccccttca tgtgtgctta cccaggctgc 1020
aataagagat attttaagct gtcccactta cagatgcaca gcaggaagca cactggtgag 1080
aaaccatacc agtgtgactt caaggactgt gaacgaagggt ttttctgttc agaccagctc 1140
aaaagacacc aaaggagaca tacagggtgtg aaaccattcc agtgtaaaac ttgtcagcga 1200
aagttctccc ggtccgacca cctgaagacc cacaccagga ctcatacagg tgaaaagccc 1260
ttcagctgtc ggtggccaag ttgtcagaaa aagtttgccc ggtcagatga attagtccgc 1320
catcacaaca tgcacagag aaacatgacc aaactccagc tggcgcttct taacaacatg 1380
ttgatcccca ttgctgtggg cgggtgccctg gcagggtgtg tctcatcgt cctcattgcc 1440
tacctcattg gcaggaagag gagtcacgcc ggctatcaga ccatctagtg a 1491

```

```

<210> 383
<211> 1251
<212> DNA
<213> Homo sapiens

```

```
<400> 383
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atggcgcccc gcagcgcccc ggcacccctg ctgctgctac tgccctgttg tgctgctcgg 60
cctcatgcat tgcctgcagc agccatgttt atggtgaaaa atggcaacgg gaccgcgtgc 120
ataatggcca acttctctgc tgccttctca gtgaactacg acaccaagag tggccccaag 180
aacatgacct ttgacctgcc atcagatgcc acagtgggtg tcaaccgcag ctctgtgga 240
aaagagaaca cttctgaccc cagtctcgtg attgcttttg gaagaggaca tacactcact 300
ctcaatttca cgagaaatgc aacacgttac agcgttcagc tcatgagttt tgtttataac 360
ttgtcagaca cacacctttt ccccaatgcg agctccaaag aaatcaagac tgtggaatct 420
ataactgaca tcagggcaga tatagataaa aaatacagat gtgttagtgg caccacaggc 480
cacatgaaca acgtgaccgt aacgctccat gatgccacca tccaggcgta cctttccaac 540
agcagcttca gcaggggaga gacacgctgt gaacaagaca ggccttcccc aaccacagcg 600
ccccctgcgc caccagcccc ctgcctctca cccgtgcca agagccctc tgtggacaag 660
tacaacgtga gcggcaccaa cgggacctgc ctgctggcca gcatggggct gcagctgaac 720
ttcacctatg agaggaagga caacacgacg gtgacaaggc ttctcaacat caaccccaac 780
aagacctcgg ccagcgggag ctgcggcgcc cacctgggtg ctctggagct gcacagcgag 840
ggcaccaccg tcctgctctt ccagttcggg atgaatgcaa gttctagccg gtttttctta 900
caaggaatcc agttgaatac aattcttctt gacgccagag accctgcctt taaagctgcc 960
aacggctccc tgcgagcgct gcaggccaca gtccggcaatt cctacaagtg caacgcggag 1020
gagcacgtcc gtgtcacgaa ggcgttttca gtcaatatat tcaaagtgtg ggtccaggct 1080
ttcaaggtgg aaggtggcca gtttggtctt gtggaggagt gtctgctgga cgagaacagc 1140
acgtgatcc ccacgctgtt ggggtggtgcc ctggcggggc tggtcctcat cgtcctcatc 1200
gcctacctcg tcggcaggaa gaggagtcac gcaggctacc agactatcta g 1251

```

<210> 384  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

```

<400> 384
atgcagatct tcgtgaagac tctgactggt aagaccatca ccctcgaggt ggagcccagt 60
gacaccatcg agaatgtcaa ggcaaagatc caagataagg aaggcattcc tcctgatcag 120
cagagggtga tctttgcggg aaaacagctg gaagatggtc gtaccctgtc tgactacaac 180
atccagaaag agtccacctt gcacctggtg ctccgtctca gaggtggg 228

```

<210> 385  
 <211> 1515  
 <212> DNA  
 <213> Homo sapiens

```

<400> 385
atgcagatct tcgtgaagac cctgaccggc aagaccatca ccctggaagt ggagcccagt 60
gacaccatcg aaaatgtgaa ggccaagatc caggataaag aaggcatccc tcccgaccag 120
cagaggctca tctttgcagg caagcagcta gaagatggcc gcaactcttc tgactacaac 180
atccagaagg agtcgacctt gcacctgggt cttcgctga gaggtgccat gggctccgac 240
gttcgtgacc tgaacgcact gctgcgggca gttccgtccc tgggtgggtg tgggtggttg 300
gcactgccgg tttagcgtgc agcacagtgg gctccggttc tggacttcgc accgccgggt 360
gcatccgcat acggttccct ggggtggtccg gcaccgcgc cggcaccgcc gccgccgccg 420
ccgccgccgc actccttcat caaacaggaa ccgagctggg gtggtgcaga accgcacgaa 480
gaacagtgcc tgagcgcatt caccgttcac ttctccggcc agttcactgg cacagccgga 540
gcctgtcgct acgggccctt cggctcctct ccgccagcc aggcgtcatc cggccaggcc 600
aggatgtttc ctaacgcgcc ctatctgcc agctgcctcg agagccagcc cgctattcgc 660
aatcagggtt acagcacggt caccttcgac gggacgcccc gctacgggtc cagccctcgc 720
caccatgcgg cgcagttccc caaccactca ttcaagcatg aggatcccat gggccagcag 780

```





```

tgtaaaactt gtcagcgaaa gttctcccgg tccgaccacc tgaagaccca caccaggact 960
catacaggtg aaaagccctt cagctgtcgg tggccaagtt gtcagaaaaa gtttgcccgg 1020
tcagatgaat tagtccgcca tcacaacatg catcagagaa acatgaccaa actccagctg 1080
gcgctttga                                     1089

```

```

<210> 388
<211> 1035
<212> DNA
<213> Homo sapiens

```

```

<400> 388
atgacggccg cgtccgataa cttccagctg tcccaggggtg ggcagggatt cgccattccg 60
atcgggcagg cgatggcgat cgcgggccag atcaagcttc ccaccgttca tatcgggcct 120
accgccttcc tcggcttggg tgttggtcgac aacaacggca acggcgcacg agtccaacgc 180
gtggtcgggg gcgctccggc ggcaagtctc ggcattctcca ccggcgacgt gatcaccgcg 240
gtcgacggcg ctccgatcaa ctcggccacc gcgatggcgg acgcgcttaa cgggcatcat 300
cccggtgacg tcatctcggg gacctggcaa accaagtcgg gcggcacgcg tacaggggaa 360
gtgacattgg ccgagggacc cccggccgaa ttccactcct tcatcaaaca ggaaccgagc 420
tggggtggtg cagaaccgca cgaagaacag tgcttgagcg cattcaccgt tcaacttctc 480
ggccagttca ctggcacagc cggagcctgt cgctacgggc ccttcggtcc tcctccgccc 540
agccaggcgt catccggcca ggccaggatg tttcctaacg cgccctacct gccagctgc 600
ctcgagagcc agcccgtat tcgcaatcag ggttacagca cggtcacctt cgacgggacg 660
cccagctacg gtcacacgcc ctgcgacct ggcggcgagt tccccaacca ctcatcaag 720
catgaggatc ccatgggcca gcagggtctg ctgggtgagc agcagtactc ggtgccgccc 780
ccggtctatg gctgccacac ccccaccgac agctgcaccg gcagccaggc tttgctgctg 840
aggacgcctt acagcagtga caattttata caaatgacat ccagcttga atgcatgacc 900
tggaatcaga tgaacttagg agccacctta aagggccaca gcacagggtg cgagagcgat 960
aaccacacaa cgcccatcct ctgcggagcc caatacagaa tacacacgca cggtgtcttc 1020
agaggcattc agtga                                     1035

```

```

<210> 389
<211> 1263
<212> DNA
<213> Homo sapiens

```

```

<400> 389
atgacggccg cgtccgataa cttccagctg tcccaggggtg ggcagggatt cgccattccg 60
atcgggcagg cgatggcgat cgcgggccag atcaagcttc ccaccgttca tatcgggcct 120
accgccttcc tcggcttggg tgttggtcgac aacaacggca acggcgcacg agtccaacgc 180
gtggtcgggg gcgctccggc ggcaagtctc ggcattctcca ccggcgacgt gatcaccgcg 240
gtcgacggcg ctccgatcaa ctcggccacc gcgatggcgg acgcgcttaa cgggcatcat 300
cccggtgacg tcatctcggg gacctggcaa accaagtcgg gcggcacgcg tacaggggaa 360
gtgacattgg ccgagggacc cccggccgaa ttcccgctgg tgccgcgcgg cagcccgatg 420
ggctccgacg ttcgggacct gaacgcactg ctgcgggcag ttccgtccct ggggtggtgt 480
ggtggttgcg cactgcccgt tagcgttgca gcacagtggg ctccggttct ggacttcgca 540
ccgcccgggt catccgcata cggttccctg ggtggtccgg caccgcgcgc ggcaccgcgc 600
ccgcccggcg cgccgcgcgc gcaactcctt atcaaacagg aaccgagctg ggggtggtgca 660
gaaccgcacg aagaacagt cctgagcgca ttaccgttc acttctccgg ccagttcact 720
ggcacagccg gagcctgtcg ctacgggccc ttcggtcctc ctccgcccag ccaggcgtca 780
tccggccagg ccaggatgtt tcctaaccgc ccctaactgc ccagctgcct cgagagccag 840
cccgtattc gcaatcaggg ttacagcacg gtcaccttgc acgggacgcc cagctacggt 900
cacacgcctt cgcacatg cgcgcagttc cccaaccact cattcaagca tgaggatccc 960
atgggcccag agggctcgt gggtgagcag cagtactcgg tgccgcccc ggtctatggc 1020
tgccacaccc ccaccgacag ctgcaccggc agccaggctt tgetgctgag gacgcctac 1080

```

```

agcagtgaca atttatacca aatgacatcc cagcttgaat gcatgacctg gaatcagatg 1140
aacttaggag ccaccttaaa gggccacagc acagggtagc agagcgataa ccacacaacg 1200
cccatcctct gcggagccca atacagaata cacacgcacg gtgtcttcag aggcattcag 1260
tga 1263

```

```

<210> 390
<211> 1707
<212> DNA
<213> Homo sapiens

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<400> 390
atgacggccg cgtccgataa cttccagctg tcccaggggtg ggcagggatt cgccattccg 60
atcgggcagc cgatggcgat cgcggggccag atcaagcttc ccaccgttca tatcgggcct 120
accgccttcc tcggcttggg tgttgctgac aacaacggca acggcgcacg agtccaacgc 180
gtggctcggg gcgctccggc ggcaagtctc ggcattctca ccggcgcacg gatcaccgcg 240
gtcgacggcg ctccgatcaa ctccggccacc gcgatggcgg acgcgcttaa cgggcatcat 300
cccggtgacg tcatctcggt gacctggcaa accaagtcgg gcggcacgcg tacagggaac 360
gtgacattgg ccgagggacc ccgggcccga ttcccgtgg tgccgcgcgg cagcccgatg 420
ggctccgacg ttccgggacct gaacgcactg ctgccggcag ttccgtccct ggggtggtgg 480
gggtggttgc cactgccggg tagcgggtgca gcacagtggg ctccggttct ggacttcgca 540
ccgcgcgggtg catccgcata cggttccctg ggtggtccgg caccgccgcc ggcaaccgcc 600
ccgcgcgcgc cgcgcgcgcg gcaactcttc atcaaacagg aaccgagctg ggggtggtgca 660
gaaccgcacg aagaacagtg cctgagcgca ttcaccgttc acttctccgg ccagttcact 720
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cacacgccct cgcaccatgc ggcgcagttc cccaaccact cattcaagca tgaggatccc 960
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tgccacaccc ccaccgacag ctgcaccggc agccaggctt tgctgctgag gacgccctac 1080
agcagtgaca atttatacca aatgacatcc cagcttgaat gcatgacctg gaatcagatg 1140
aacttaggag ccaccttaaa gggccacagc acagggtagc agagcgataa ccacacaacg 1200
cccatcctct gcggagccca atacagaata cacacgcacg gtgtcttcag aggcattcag 1260
gatgtgcgac gtgtgcctgg agtagcccc actcttgtac ggtcggcatc tgagaccagt 1320
gagaaaacgc cttcatgtg tgcttaccga ggctgcaata agagatattt taagctgtcc 1380
cacttacaga tgcacagcag gaagcacact ggtgagaaac cataccagtg tgacttcaag 1440
gactgtgaac gaaggttttt tcgttcagac cagctcaaaa gacaccaaag gagacataca 1500
gggtgtgaaac cattccagtg taaaacttgt cagcgaaagt tctcccggtc cgaccacctg 1560
aagaccaca ccaggactca tacagggtgaa aagcccttca gctgtcgggt gccaaagtgt 1620
cagaaaaagt ttgcccgggt agatgaatta gtccgccatc acaacatgca tcagagaaac 1680
atgacaaaac tccagctggc gctttga 1707

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```

<210> 391
<211> 344
<212> PRT
<213> Homo sapiens

```

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<400> 391
Met Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly
      5                      10                      15

Phe Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Lys
      20                      25                      30

Leu Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu Gly Val

```



				325					330										335
His	Gly	Val	Phe	Arg	Gly	Ile	Gln												
			340																
<210>	392																		
<211>	568																		
<212>	PRT																		
<213>	Homo sapiens																		
<400>	392																		
Met	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu	Ser	Gln	Gly	Gly	Gln	Gly				
				5					10					15					
Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala	Ile	Ala	Gly	Gln	Ile	Lys				
			20					25					30						
Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala	Phe	Leu	Gly	Leu	Gly	Val				
			35				40					45							
Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	Gln	Arg	Val	Val	Gly	Ser				
	50					55					60								
Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	Gly	Asp	Val	Ile	Thr	Ala				
	65				70					75					80				
Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	Ala	Met	Ala	Asp	Ala	Leu				
				85					90					95					
Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	Val	Thr	Trp	Gln	Thr	Lys				
			100					105					110						
Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	Leu	Ala	Glu	Gly	Pro	Pro				
		115					120					125							
Ala	Glu	Phe	Pro	Leu	Val	Pro	Arg	Gly	Ser	Pro	Met	Gly	Ser	Asp	Val				
	130					135					140								
Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Pro	Ser	Leu	Gly	Gly	Gly				
	145				150					155					160				
Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala	Ala	Gln	Trp	Ala	Pro	Val				
				165					170					175					
Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr	Gly	Ser	Leu	Gly	Gly				
			180					185					190						
Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	His				
		195				200							205						
Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly	Ala	Glu	Pro	His	Glu				
	210				215						220								

Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr
225					230					235					240
Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro	Pro
				245					250					255	
Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe	Pro	Asn	Ala	Pro	Tyr
			260					265					270		
Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile	Arg	Asn	Gln	Gly	Tyr
		275					280					285			
Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro	Ser
	290					295					300				
His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe	Lys	His	Glu	Asp	Pro
305					310					315					320
Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln	Tyr	Ser	Val	Pro	Pro
				325					330					335	
Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln
			340					345					350		
Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met
		355					360					365			
Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln	Met	Asn	Leu	Gly	Ala
	370					375					380				
Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr	Glu	Ser	Asp	Asn	His	Thr	Thr
385					390					395					400
Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile	His	Thr	His	Gly	Val	Phe
				405					410					415	
Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro	Gly	Val	Ala	Pro	Thr	Leu
			420					425					430		
Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys	Arg	Pro	Phe	Met	Cys	Ala
		435					440					445			
Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys	Leu	Ser	His	Leu	Gln	Met
	450					455					460				
His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Asp	Phe	Lys
465					470					475					480
Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg	Ser	Asp	Gln	Leu	Lys	Arg	His	Gln
				485					490					495	
Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln	Cys	Lys	Thr	Cys	Gln	Arg
			500					505					510		

Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr His Thr  
 515 520 525

Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys Gln Lys Lys Phe  
 530 535 540

Ala Arg Ser Asp Glu Leu Val Arg His His Asn Met His Gln Arg Asn  
 545 550 555 560

Met Thr Lys Leu Gln Leu Ala Leu  
 565

<210> 393

<211> 420

<212> PRT

<213> Homo sapiens

<400> 393

Met Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly  
 5 10 15

Phe Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Lys  
 20 25 30

Leu Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu Gly Val  
 35 40 45

Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val Gly Ser  
 50 55 60

Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val Ile Thr Ala  
 65 70 75 80

Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala Asp Ala Leu  
 85 90 95

Asn Gly His His Pro Gly Asp Val Ile Ser Val Thr Trp Gln Thr Lys  
 100 105 110

Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly Pro Pro  
 115 120 125

Ala Glu Phe Pro Leu Val Pro Arg Gly Ser Pro Met Gly Ser Asp Val  
 130 135 140

Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly  
 145 150 155 160

Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala Gln Trp Ala Pro Val  
 165 170 175

Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu Gly Gly  
 180 185 190

Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro Pro Pro Pro Pro His  
 195 200 205  
 Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro His Glu  
 210 215 220  
 Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr  
 225 230 235 240  
 Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro Pro Pro  
 245 250 255  
 Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro Tyr  
 260 265 270  
 Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln Gly Tyr  
 275 280 285  
 Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr Gly His Thr Pro Ser  
 290 295 300  
 His His Ala Ala Gln Phe Pro Asn His Ser Phe Lys His Glu Asp Pro  
 305 310 315 320  
 Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val Pro Pro  
 325 330 335  
 Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln  
 340 345 350  
 Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met  
 355 360 365  
 Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln Met Asn Leu Gly Ala  
 370 375 380  
 Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp Asn His Thr Thr  
 385 390 395 400  
 Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly Val Phe  
 405 410 415  
 Arg Gly Ile Gln  
 420

<210> 394

<211> 362

<212> PRT

<213> Homo sapiens

<400> 394

Met His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro



	5	10	15
His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe Ser Gly Gln	20	25	30
Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro	35	40	45
Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala	50	55	60
Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln	65	70	75
Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr Gly His Thr	85	90	95
Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe Lys His Glu	100	105	110
Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val	115	120	125
Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser Cys Thr Gly	130	135	140
Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr	145	150	155
Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln Met Asn Leu	165	170	175
Gly Ala Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp Asn His	180	185	190
Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly	195	200	205
Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly Val Ala Pro	210	215	220
Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro Phe Met	225	230	235
Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser His Leu	245	250	255
Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr Gln Cys Asp	260	265	270
Phe Lys Asp Cys Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu Lys Arg	275	280	285
His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys Lys Thr Cys			



<210> 396	
<211> 30	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> PCR primer	
<400> 396	
gacgaaagca tatgcactcc ttcatacaaac	30
<210> 397	
<211> 31	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> PCR primer	
<400> 397	
cgcgtgaatt catcactgaa tgcctctgaa g	31
<210> 398	
<211> 31	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> PCR primer	
<400> 398	
cgataagcat atgacggccg cgtccgataa c	31
<210> 399	
<211> 31	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> PCR primer	
<400> 399	
cgcgtgaatt catcactgaa tgcctctgaa g	31

<210> 400  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 400  
 cgataagcat atgacggccg cgtccgataa c 31

<210> 401  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 401  
 gtctgcagcg gccgctcaaa gcgccagc 28

<210> 402  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 402  
 gacgaaagca tatgcactcc ttcataaaac 30

<210> 403  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 403  
 gtctgcagcg gccgctcaaa gcgccagc 28

<210> 404  
 <211> 449  
 <212> PRT  
 <213> Homo sapiens

<400> 404  
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro  
 1 5 10 15

Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala  
 20 25 30  
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
 35 40 45  
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro  
 50 55 60  
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80  
 Ala Glu Pro His Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe  
 85 90 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110  
 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile  
 130 135 140  
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr  
 145 150 155 160  
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe  
 165 170 175  
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln  
 180 185 190  
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser  
 195 200 205  
 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp  
 210 215 220  
 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln  
 225 230 235 240  
 Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser  
 245 250 255  
 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu  
 260 265 270  
 Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile  
 275 280 285  
 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro  
 290 295 300  
 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys  
 305 310 315 320  
 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys  
 325 330 335  
 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro  
 340 345 350  
 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp  
 355 360 365  
 Gln Leu Lys Arg His Gln Arg His Thr Gly Val Lys Pro Phe Gln  
 370 375 380  
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr  
 385 390 395 400  
 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys  
 405 410 415  
 Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val  
 420 425 430  
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala  
 435 440 445

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<210> 405
<211> 428
<212> PRT
<213> Homo sapiens
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<400>	405														
Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Pro
1				5					10					15	
Ser	Pro	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala	Thr
			20					25					30		
Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Val	Pro	Pro	Gly	Ala	Pro	Val	Cys
		35				40						45			
Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Leu	Pro
	50					55					60				
Pro	Pro	Pro	Ser	His	Ser	Phe	Thr	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly
65					70					75					80
Thr	Glu	Pro	His	Ala	Gly	Gln	Gly	Arg	Ser	Ala	Leu	Val	Ala	His	Ser
				85					90					95	
Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe
			100					105					110		
Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe
		115					120					125			
Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile
	130					135					140				
Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr
145					150					155					160
Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Ser
				165					170					175	
Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Pro	Gly	Glu	Gln	Gln
			180					185					190		
Tyr	Ser	Ala	Pro	Pro	Pro	Val	Cys	Gly	Cys	Arg	Thr	Pro	Thr	Gly	Ser
	195					200						205			
Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Ala	Pro	Tyr	Ser	Gly	Gly
	210					215					220				
Asp	Leu	His	Gln	Thr	Thr	Ser	Gln	Leu	Gly	His	Met	Ala	Trp	Asn	Gln
225					230					235					240
Thr	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly	His	Gly	Thr	Gly	Tyr	Glu	Ser
			245						250					255	
Asp	Asp	His	Thr	Thr	Pro	Ile	Leu	Cys	Gly	Thr	Gln	Tyr	Arg	Ile	Arg
			260					265					270		
Ala	Arg	Gly	Val	Leu	Arg	Gly	Thr	Gln	Asp	Val	Arg	Cys	Val	Pro	Gly
		275					280					285			
Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys	Arg
	290					295					300				
Pro	Leu	Met	Cys	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	His	Phe	Lys	Pro
305					310				315						320
Ser	Arg	Leu	Arg	Val	Arg	Gly	Arg	Glu	Arg	Thr	Gly	Glu	Lys	Pro	Tyr
			325						330					335	
Gln	Arg	Asp	Phe	Lys	Asp	Arg	Gly	Arg	Gly	Leu	Leu	Arg	Pro	Asp	Gln
			340					345					350		

Leu	Lys	Arg	His	Gln	Arg	Gly	His	Thr	Gly	Val	Lys	Pro	Leu	Gln	Cys
		355					360					365			
Glu	Ala	Arg	Arg	Arg	Pro	Pro	Arg	Pro	Gly	His	Leu	Lys	Val	His	Thr
	370					375					380				
Arg	Thr	His	Thr	Gly	Gly	Glu	Pro	Phe	Ser	Cys	Arg	Trp	Pro	Ser	Cys
385					390					395					400
Gln	Glu	Lys	Ser	Ala	Arg	Pro	Asp	Glu	Ser	Ala	Arg	Arg	His	Asn	Met
				405					410					415	
His	Gln	Arg	Asn	Met	Thr	Lys	Leu	Gln	Leu	Ala	Leu				
			420					425							

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<210> 406
<211> 414
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 85, 86, 172, 173, 242, 245, 246, 247
<223> Xaa = Any Amino Acid
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<400> 406															
Met 1	Gly	Ser	Asp	Val 5	Arg	Asp	Leu	Ser	Ala 10	Leu	Leu	Pro	Ala	Val 15	Pro
Ser	Leu	Gly	Asp 20	Gly	Gly	Gly	Cys	Ala 25	Leu	Pro	Val	Ser	Gly 30	Ala	Ala
Gln	Trp	Ala 35	Pro	Val	Leu	Asp 40	Phe	Ala	Pro	Pro	Gly	Ala 45	Ser	Ala	His
Gly	Pro 50	Leu	Gly	Gly	Pro	Ala 55	Pro	Pro	Ser	Ala	Pro 60	Pro	Pro	Pro	Pro
Pro 65	Pro	Pro	Pro	His	Ser 70	Phe	Ile	Lys	Gln	Gly 75	Pro	Ser	Trp	Gly	Gly 80
Ala	Glu	Leu	His	Xaa 85	Xaa	Gln	Tyr	Leu	Ser 90	Ala	Phe	Thr	Val	His 95	Ser
Ser	Gly	Gln	Val 100	His	Trp	His	Gly	Arg 105	Gly	Leu	Ser	Leu	Arg 110	Ala	Pro
Arg	Pro	Pro	Ser 115	Ala	Gln	Pro	Gly 120	Val	Ile	Arg	Pro	Gly 125	Gln	Asp	Val
Ser	Arg 130	Ala	Leu	Pro	Ala	Gln 135	Pro	Pro	Arg	Glu	Pro 140	Ala	Arg	Tyr	Pro
Gln 145	Ser	Gly	Leu	Gln	His 150	Gly	His	Leu	Arg	Arg 155	Gly	Val	Arg	Leu	Arg 160
Ser	His	Ala	Leu	Ala 165	Pro	Cys	Gly	Ala	Val 170	Leu	Xaa	Xaa	Thr	Arg 175	Ala
Gly	Ser	His	Gly 180	Pro	Ala	Gly	Ser	Ala 185	Gly	Ala	Ala	Val	Leu 190	Gly	Ala
Ala	Pro 195	Gly	Leu	Trp	Pro	Pro	His 200	Pro	Arg	Arg	Gln	Leu 205	Arg	Arg	Gln
Pro	Gly 210	Phe	Ala	Ala	Glu	Gly 215	Ala	Leu	Gln	Arg	Arg 220	Phe	Ile	Pro	Ser
Asp 225	Val	Pro	Ala	Val	His 230	Gly	Leu	Glu	Ser	Asp 235	Glu	Pro	Arg	Gly	Arg 240
Leu	Xaa	Gly	Pro	Xaa	Xaa	Xaa	Val	Arg	Glu	Arg	Ser	His	Asn	Ala	Arg





```

      195              200              205
Pro Gly Phe Ala Ala Glu Asp Ala Leu Gln Gln Gln Phe Ile Pro Asn
  210              215              220
Asp Ile Pro Ala Met His Asp Leu Glu Ser Asp Glu Leu Arg Ser His
  225              230              235              240
Leu Lys Gly Pro Gln His Arg Val Arg Glu Arg Pro His Asn Ala His
              245              250              255
Pro Leu Arg Ser Pro Ile Gln Asn Thr His Ala Arg Cys Leu Gln Arg
              260              265              270
His Ser Gly Cys Ala Thr Cys Ala Trp Ser Ser Pro Asp Ser Cys Thr
              275              280              285
Val Ala Pro Glu Thr Ser Glu Asn Ala Pro Trp Cys Val Leu Pro Gly
  290              295              300
Leu Gln Gly Val Phe Ala Val Pro Leu Thr Gly Ala Gln Gln Glu Ala
  305              310              315              320
His Trp Asp Ala Thr Pro Val Arg Leu Gln Gly Pro Trp Thr Arg Ala
              325              330              335
Ser Pro Phe Gly Thr Ser Pro Arg Asp Thr Lys Gly Asp Ile Gln Val
              340              345              350
Arg Asn His Ser Ser Val Arg Leu Val Ser Glu Gly Ser Pro Gly Pro
              355              360              365
Thr Thr Gly Pro Thr Pro Gly Pro Thr Arg Val Gly Ser Pro Ser Ala
  370              375              380
Ala Gly Gly Gln Ala Ala Arg Glu Gly Ser Pro Ser Gln Thr Asn Ser
  385              390              395              400
Val Ile Thr Thr Cys Ile Ser Glu Thr Leu Asn Ser Ser Trp Arg Phe
              405              410              415
Glu

```

```

<210> 408
<211> 429
<212> PRT
<213> Homo sapiens

```

```

<400> 408
Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro
  1              5              10              15
Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala
              20              25              30
Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
  35              40              45
Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro
  50              55              60
Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
  65              70              75              80
Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe
              85              90              95
Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
              100              105              110
Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
              115              120              125
Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile

```

130	135	140
Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr		
145	150	155
Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe		
	165	170
Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln		
	180	185
Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser		
	195	200
Cys Thr Gly Ser Gln Ala Leu Leu Arg Thr Pro Tyr Ser Ser Asp		
	210	215
Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln		
225	230	235
Met Asn Leu Gly Ala Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser		
	245	250
Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His		
	260	265
Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly		
	275	280
Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg		
	290	295
Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu		
305	310	315
Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr		
	325	330
Gln Cys Asp Phe Lys Asp Cys Glu Arg Phe Phe Arg Ser Asp Gln		
	340	345
Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys		
	355	360
Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His		
	370	375
Thr Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser		
385	390	395
Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn		
	405	410
Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala Leu		
	420	425

&lt;210&gt; 409

&lt;211&gt; 495

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 409

Met Ala Ala Pro Gly Ala Arg Arg Ser Leu Leu Leu Leu Leu Leu Ala	
1	5
Gly Leu Ala His Gly Ala Ser Ala Leu Phe Glu Asp Leu Met Gly Ser	
	20
Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly	
	35
Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala Gln Trp Ala	
	50
Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu	
	55
	60

65					70					75					80
Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Pro	His
				85					90					95	
Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly	Ala	Glu	Pro	His	Glu
			100					105					110		
Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr
		115					120					125			
Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro	Pro
	130					135					140				
Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe	Pro	Asn	Ala	Pro	Tyr
145					150					155					160
Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile	Arg	Asn	Gln	Gly	Tyr
			165					170						175	
Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro	Ser
			180					185					190		
His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe	Lys	His	Glu	Asp	Pro
		195					200					205			
Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln	Tyr	Ser	Val	Pro	Pro
	210					215					220				
Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln
225					230					235					240
Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met
				245					250					255	
Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln	Met	Asn	Leu	Gly	Ala
			260					265					270		
Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr	Glu	Ser	Asp	Asn	His	Thr	Thr
		275					280					285			
Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile	His	Thr	His	Gly	Val	Phe
290						295				300					
Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro	Gly	Val	Ala	Pro	Thr	Leu
305					310					315					320
Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys	Arg	Pro	Phe	Met	Cys	Ala
				325					330					335	
Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys	Leu	Ser	His	Leu	Gln	Met
			340					345					350		
His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Asp	Phe	Lys
		355					360					365			
Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg	Ser	Asp	Gln	Leu	Lys	Arg	His	Gln
		370				375					380				
Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln	Cys	Lys	Thr	Cys	Gln	Arg
385					390					395					400
Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr	His	Thr	Arg	Thr	His	Thr
				405					410					415	
Gly	Glu	Lys	Pro	Phe	Ser	Cys	Arg	Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe
			420					425					430		
Ala	Arg	Ser	Asp	Glu	Leu	Val	Arg	His	His	Asn	Met	His	Gln	Arg	Asn
			435				440					445			
Met	Thr	Lys	Leu	Gln	Leu	Ala	Leu	Leu	Asn	Asn	Met	Leu	Ile	Pro	Ile
	450					455					460				
Ala	Val	Gly	Gly	Ala	Leu	Ala	Gly	Leu	Val	Leu	Ile	Val	Leu	Ile	Ala
465					470					475					480
Tyr	Leu	Ile	Gly	Arg	Lys	Arg	Ser	His	Ala	Gly	Tyr	Gln	Thr	Ile	
				485					490					495	

<210> 410  
 <211> 504  
 <212> PRT  
 <213> Homo sapiens

<400> 410  
 Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu  
 1 5 10 15  
 Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp  
 20 25 30  
 Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys  
 35 40 45  
 Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu  
 50 55 60  
 Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Ala Met Gly Ser Asp  
 65 70 75 80  
 Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly  
 85 90 95  
 Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala Gln Trp Ala Pro  
 100 105 110  
 Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu Gly  
 115 120 125  
 Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro Pro Pro His  
 130 135 140  
 Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro His Glu  
 145 150 155 160  
 Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr  
 165 170 175  
 Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro Pro Pro  
 180 185 190  
 Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro Tyr  
 195 200 205  
 Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln Gly Tyr  
 210 215 220  
 Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr Gly His Thr Pro Ser  
 225 230 235 240  
 His His Ala Ala Gln Phe Pro Asn His Ser Phe Lys His Glu Asp Pro  
 245 250 255  
 Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val Pro Pro  
 260 265 270  
 Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln  
 275 280 285  
 Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met  
 290 295 300  
 Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln Met Asn Leu Gly Ala  
 305 310 315 320  
 Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp Asn His Thr Thr  
 325 330 335  
 Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly Val Phe  
 340 345 350  
 Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu  
 355 360 365  
 Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro Phe Met Cys Ala

```

      370              375              380
Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser His Leu Gln Met
385              390              395              400
His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr Gln Cys Asp Phe Lys
      405              410              415
Asp Cys Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu Lys Arg His Gln
      420              425              430
Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys Lys Thr Cys Gln Arg
      435              440              445
Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr His Thr
      450              455              460
Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys Gln Lys Lys Phe
465              470              475              480
Ala Arg Ser Asp Glu Leu Val Arg His His Asn Met His Gln Arg Asn
      485              490              495
Met Thr Lys Leu Gln Leu Ala Leu
      500

```

```

<210> 411
<211> 10
<212> PRT
<213> Homo sapiens

```

```

<400> 411
Val Leu Asp Phe Ala Pro Pro Gly Ala Ser
 1              5              10

```

```

<210> 412
<211> 15
<212> PRT
<213> Homo sapiens

```

```

<400> 412
Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala
 1              5              10              15

```

```

<210> 413
<211> 15
<212> PRT
<213> Homo sapiens

```

```

<400> 413
Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu
 1              5              10              15

```